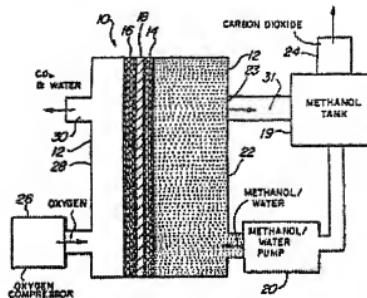


**NOVEL POLYMER ELECTROLYTE MEMBRANES FOR USE IN FUEL CELLS****Publication number:** JP2001504636 (T)**Publication date:** 2001-04-03**Inventor(s):****Applicant(s):****Classification:****- international:** H01M8/02; C08J5/22; H01M8/10; H01M8/02; C08J5/20; H01M8/10; (IPC1-7): H01M8/02**- European:** C08J5/22B2; H01M8/10C; H01M8/10E2**Application number:** JP19980523884T 19971118**Priority number(s):** US19960751366 19961118; US19970846972 19970430; WO1997US21247 19971118**Also published as:** JP4231110 (B2) WO9822989 (A1) US6444343 (B1) EP0948827 (A1) EP0948827 (A4)[more >>](#)

Abstract not available for JP 2001504636 (T)

Abstract of corresponding document: **WO 9822989 (A1)**

A polymer electrolyte membrane (18) composed of polystyrene sulfonic acid (PSSA) and poly (vinylidene fluoride) (PVDF) is provided. This membrane (18) exhibits low methanol crossover which translates to higher fuel and fuel cell efficiencies. A fuel cell (10) comprising a PSSA-PVDF membrane (18) is also provided. Further, methods of decreasing the fuel crossover rate, enhancing fuel cell efficiency, and enhancing electrical performance of a fuel cell are provided.

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